



#### ORDERING INFORMATION

**Catalog Number:** AF1439

**Lot Number:** IKZ01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human GFR $\alpha$ -4

**Immunogen:** NS0-derived rhGFR $\alpha$ -4  
(aa 21 - 245)

**Ig Type:** human GFR $\alpha$ -4 specific goat IgG

**Applications:** Direct ELISA  
Western blot

## ***Anti-human GFR $\alpha$ -4 Antibody***

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant human Glial cell line-derived neurotrophic factor receptor alpha 4 (rhGFR $\alpha$ -4; aa 21 - 245). Human GFR $\alpha$ -4 specific IgG was purified by human GFR $\alpha$ -4 affinity chromatography. GFR $\alpha$ -4 is a cysteine-rich glycosylphosphatidylinositol GPI-linked cell surface protein that preferentially binds persephin.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### ***Reconstitution***

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for its ability to recognize human GFR $\alpha$ -4 in direct ELISAs and western blots.

### ***Applications***

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human GFR $\alpha$ -4. The detection limit for rhGFR $\alpha$ -4 is approximately 3 ng/well. In this format, this antibody shows approximately 5% cross-reactivity with rhGFR $\alpha$ -1 and less than 1% cross-reactivity with rhGFR $\alpha$ -2 and rhGFR $\alpha$ -3.

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human GFR $\alpha$ -4. The detection limit for rhGFR $\alpha$ -4 is approximately 20 ng/lane under non-reducing and reducing conditions.

**Optimal dilutions should be determined by each laboratory for each application.**